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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/895,993	06/29/2001	Jerzy Miernik	062891.0553	1553
7590	09/20/2005		EXAMINER	
Barton E. Showalter Baker Botts L.L.P. 2001 Ross Avenue Dallas, TX 75201-2980			MEW, KEVIN D	
			ART UNIT	PAPER NUMBER
			2664	

DATE MAILED: 09/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/895,993	MIERNIK ET AL.	
	Examiner Kevin Mew	Art Unit 2664	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 29 June 2001.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-47 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 34-47 is/are allowed.

6) Claim(s) 1-33 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 29 June 2001 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____.

Detailed Action

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

In particular, the title of the present application should be not included on the abstract page.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Satt et al. (US Publication 2004/0248583) in view of Wigell et al. (USP 6,928,304).

Regarding claims 1, 6, 10, 12, 17, 21, 23, 28, 32, Satt discloses a system with logic to perform a method for service flow mobility, comprising:

queueing traffic for a mobile device in one of a plurality of class of service queues (different priorities associated with different streams, paragraphs 0142, 0143, 0144) for the mobile device (cell queue for queuing traffic for the mobile users, Fig. 15);
altering an association of the class service queues for the mobile device from first sector second sector in response to at least sector change for the mobile device (mobile user is transmitted from one cell budget to another, such that the mobile user receives a new resource allocation in the next cell, paragraph 0049); and

Satt does not explicitly show holding post-sector-change packets for the mobile device until pre-sector-change packets have been emptied from the class of service queues.

However, Wigell discloses base stations BSs belonging to an active soft-handover SHO link set (a label that identifies both the post-sector change packet and the pre-sector change packet) receive PDUs from the user equipment UE (col. 5, lines 57-67 and col. 6, lines 1-3).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the traffic queuing system and method of Satt with the teaching of Wigell in gathering packets from the UE at those base stations that are being involved in the soft handover such that post-sector-change packets for the mobile device until pre-sector-change packets have been emptied from the class of service queues. The motivation to do so is to acknowledge successfully transmitted data packets and request retransmission of unsuccessfully transmitted data packets.

Regarding claims 2, 13, 24, Satt discloses a system with logic to perform the method of Claim 1, further comprising reformatting the class of service queues by altering type of class of

service queues for the mobile device based on admission criteria of the second sector (dynamically manages the sector budget based on the policy management rules that control flow of traffic, paragraphs 0062, 0063).

Regarding claims 3, 14, 25, Satt discloses a system with logic to perform the method of Claim 2, wherein the admission criteria comprises classes service available in the second sector (policy rules are based on QoS attributes, paragraph 0062).

Regarding claims 4, 15, 26, Satt discloses a system with logic to perform the method of Claim 2, further comprising after reformatting the class of service queues, placing the held traffic in the class of service queues (placing the user-prioritized traffic in the cell queue, Fig. 15).

Regarding claims 5, 16, 27, Satt discloses a system with logic to perform the method of Claim 1, wherein altering association comprises altering an object link (altering association comprises altering a resource allocation, paragraph 0049).

Regarding claims 7, 18, 29, Satt discloses a system with logic to perform the method change comprises Claim 1, wherein the sector change comprises a primary sector change (cell that comprises a first cell budget, paragraph 0049).

Regarding claims 8, 19, 30, Satt discloses a system with logic to perform the method Claim 7, further comprising scheduling traffic out of the class of service queues for delivery to

the mobile device through a corresponding class service of the primary sector for the mobile device (packets are read out from the queue based on the priorities of the packet streams, paragraph 0144).

Regarding claims 9, 19, 31, Satt discloses all the aspects of the claimed invention set forth in the rejection of claim 1 above, except fails to explicitly show a system with logic to perform the method of Claim 1, wherein the pre-sector-change packets comprise packets that have already been queued at the time of the sector change. However, Satt discloses packets are saved in a cell queue and read from the queue on a first-come-first-serve basis (paragraphs 0139, 0144). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the traffic queuing system and method of Satt such that packets are gathered on a first-come-first-serve basis so that the pre-sector-change packets have already been queued at the time of sector change. The motivation to do so is to save the packets in a cell queue on a first-come-first-serve basis so that pre-sector-change packets are read out from the queue first prior to the post-sector-change packets.

Regarding claims 11, 22, 33, Satt discloses all the aspects of the claimed invention set forth in the rejection of claim 1 above, except fails to explicitly show a system with logic to perform the method Claim 1, further comprising in response to at least a further section change, prior emptying the pre-sector change packets for the class of service queues, holding further post-sector change packets for the mobile device until the pre-sector change and the post-sector change packets have been emptied from the class of service queues.

However, Wigell discloses base stations BSs belonging to an active soft-handover SHO link set (a label that identifies the post-sector change packet) receive PDUs from the user equipment UE (col. 5, lines 57-67 and col. 6, lines 1-3).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the traffic queuing system and method of Satt with the teaching of Wigell in gathering packets from the UE at those base stations that are being involved in the soft handover such that in response to at least a further section change, prior emptying the pre-sector change packets for the class of service queues, holding further post-sector change packets for the mobile device until the pre-sector change and the post-sector change packets have been emptied from the class of service queues. The motivation to do so is to acknowledge successfully transmitted data packets and request retransmission of unsuccessfully transmitted data packets.

Allowable Subject Matter

3. Claims 34-47 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:
In claim 34, a method service flow mobility that maintains packet order comprising:
receiving at gateway sending data to mobile device a sector change notification indicating that primary sector of the mobile device has changed from a first sector to a second sector;
generating labels for incoming data packets destined the mobile device received after the sector change notification, the label associated with second sector;

deleting object links corresponding to the mobile device from first sector-specific object list in the gateway, wherein the first sector-specific object list corresponds to the first sector;

creating object links corresponding the mobile device second sector-specific object list in the gateway, wherein second sector-specific object list corresponds the second primary sector;
and

queueing data packets from the buffer list when the existing queue of data packets destined the mobile device have been transmitted.

In claim 41, a system for service flow mobility that maintains packet order comprising:
means for receiving at gateway sending data to mobile device a sector change notification indicating that primary sector of the mobile device has changed from a first sector to a second sector;

means for generating labels for incoming data packets destined the mobile device received after the sector change notification, the label associated with second sector;

means for deleting object links corresponding to the mobile device from first sector-specific object list in the gateway, wherein the first sector-specific object list corresponds to the first sector;

means for creating object links corresponding the mobile device second sector-specific object list in the gateway, wherein second sector-specific object list corresponds the second primary sector; and

means for queuing data packets from the buffer list when the existing queue of data packets destined the mobile device have been transmitted.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Publication 2002/0131434 to Vukovic et al.

US Publication 2002/0147834 to Liou et al.

US Publication 2004/0174865 to O'Neill

US Publication 2002/0099854 to Jorgensen

US Patent 6,097,700 to Thornberg et al.

US Patent 6,647,265 to Olofsson et al.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Mew whose telephone number is 571-272-3141. The examiner can normally be reached on 9:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



WELLINGTON CHIN
REVISORY PATENT EXAMINER